KHUPA, J.

Studies on the physiology of germination of spores of Funaria hygrometrica (Sibth.) Acta soc botan Pol 33 no.1:179-192 164

1. Department of Plant Physiology, Higher Pedagogical School, Krakow.

L

L 34913-66 ACC NR. AP6026595

SOURCE CODE: CZ/0034/66/000/002/0127/0128

AUTHOR: Krupa, Juraj (Engineer)

ORG: VUHP, Bratislava

TITIE: Calcium chloride as the best chemical agent for insuring smooth supply of powdered substances during winter

SOURCE: Hutnicke listy, no. 2, 1966, 127-128

TOPIC TAGS: steel industry, iron, calcium chloride

ABSTRACT: For cres with a water content of 4-5% 1 to 2 kg of CaCl₂ are required per ton of ore for temperatures up to - 15°C; below this level 2 to 5 kg are needed. The chloride is added in the form of an anhydrous powder. Experience obtained in shipping iron ore with this additive in Poland, Yugoslavia and Rumania is described. It is important to prevent contact between the chloride and snow. Experience in Czechoslovakia during the winter of 1964/65 was very favorable. Orig. art. has: 1 table. [JPRS: 34,779]

SUB CODE: 11, C7, O5 / SUBM DATE: none

Cord 1/1 7/7 0

KRUPA, J.; UHFR, J.; Technicka spoluprace: UTRATA, E.

The source of fat and the problem of the amount of fat necessary for fat embolism. Bratisl, lek. listy 44 no.6:337-352 30 S 164.

1. Vyzkumny ustav traumatologicky v Brne, (reditel prof. MUDr. V. Novak).

KRUPA, Josef

Sporadic cretinism in a 3-year-old girl. Cesk.psychiat. 55 no.6: 397-402 D 159.

1. Detske odd. psychiatricke lecebny v Kromerizi. (CHETINISM case reports)

KRU! A, Juraj, ins.

Hydrophobic materials and their use by the Gzecheslevak Rail-roads. Rel dop tesh 12 no.2132-39 164

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

KRUPA, Juraj, inz.

how to ensure the continuous unloading of loose materials during winter. Zel dop tech 11 no.9:254-255 '63.

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KRUTA, L. "Wrętiarki New Books (Nowe	waskoprzodkowe" (Small-face cutters), by L. Krupa. Ksiązki), No. 12, June 15, 1956.	Reported in	

KRUPA, Lucjan, dr inz.

Influence of the tool feed and machining rate on the power of the engine of a longwall chain cutter. Przegl mech 23 no. 5:151 10 Mr '64.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

KOLENDOWSKI, Jerzy, dr inz.; KRUPA, Lucjan, mgr inz.

Automation of coal cutters. Przegl gorn 19 no.1:25-35 Ja '63.

Poland/Chemical Technology - Chemical Products and Their Application. Treatment of
Natural Gases and Petroleum. Motor Fuels. Lubricants,
1-13

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62588

Author: _Krupa, Marian; Masiarczyk, Helena; Palczewski, Jan

Institution: None

Title: Desulfurization of Petroleum Products Obtained from High Sulfur

Content Petroleum

Original

Periodical: Odsiarczanie produktow naftowych otrzymywanych z rop Wysokosiarkowych,

Nafta (Polska), 1956, 12, No 3, 72-76; Polish

Abstract: Considered are the presently practiced in Poland procedures for

desulfurization of petroleum products obtained from high sulfur content petroleum and also procedures recommended for adoption in practice: catalytic desulfurization of gasoline with the use of decolorizing clays or bauxite, extraction of mercaptanes with soda

solution in the presence of methanol, etc.

Card 1/1

HRUPA, J.

The 2d Congress is approaching. p. 1.
Indissoluble friendship. p. 1
Vol E, no. 51. Dec. 1955. ROLNIK SPOLDZIELGA. Warsaw, Poland (k). We share our experiences. p. 2

So: Eastern European Accession. Vol 5, no. 4, April 1956

KHUPA, S.

KRUPA, S. All should participate in the pre-Congress competition. p. 1. Vol. 9, no. 5, Jan. 1956. ROLNIK SPOLDZIFICA. Warszawa, Foland.

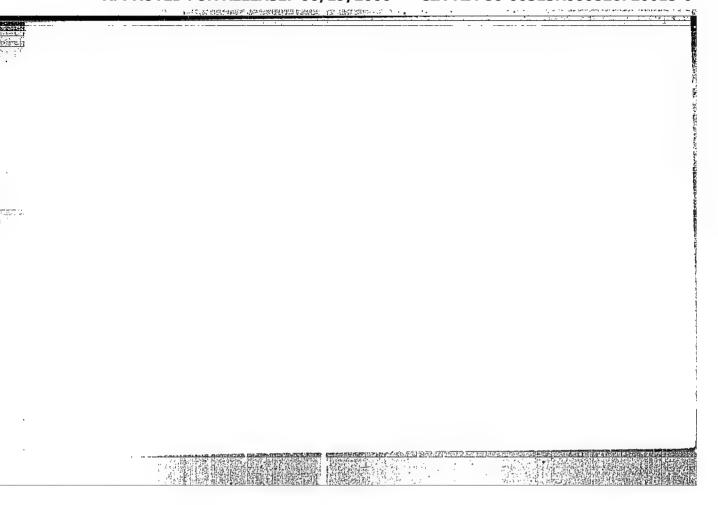
SOURCE: Fast European Accessions List (FEAL) Vol. 6, No. 4--April 1957

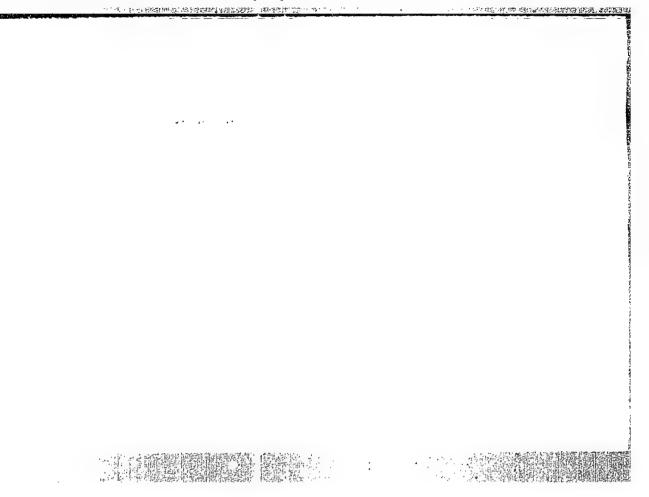
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CIA-RDP86-00513R000826720015-0

The Conference of the Workman's Self government of the Chedziez Works decreed to modernize the plants. Przem mat budow 9 no.17:3 30 Ap *62.

ACC NA AP6006105 SOURCE CODE: CZ/0053/65/011/001/0322/0322 AUTHOR: Zathurecky, L.; Krupa, V.; Rochova, M. ORG: Institute of Pharmacology, CSAV, Bratislava (Farmakologicky ustav CSAV) TITLE: Passage of cardenolides through the small intestine of rats in vitro [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 27 Jan 65.] SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 322 TOPIC TAGS: rat, digestive system, biologic metabolism, carbohydrate, processed plant product, biochemistry ABSTRACT: Study of convallatoxin and helveticoside revealed the presence of convallatoxol (C-10-aldehyde-reduced convallatoxin metabolite) and strophantiding (i.e. de-rhamnose convallatoxin) in rat jejunal lumen in vitro 4 hours after immersion; 2 unidentified metabolites as well intact convallatoxin were also present; at the same time helveticoside, strophantidine and an unidentified metabolite were identified. The C-10 (steroid ring) reduction is a key step in the metabolism of cardenolides. Quantitative analysis of breadown and speed of intestinal transfer agree with the relatively poor effect of peroral strophantidine cardenolides. [JPRS] SUB CODE: 06 / SUBM DATE: none Card 1/1





"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00!

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ZATHURECKY, L.; KRUPA, V.; ROCHOVA, M.; HUBIK, J.

Stability of the fat in wool in the presence of some anti-oxidants. Cosk. farm. 14 no.1:2-8 Ja 165

 Farmakologicky ustav Geskoslovenskej akademie ved, Pracovisko Bratislava.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

KRUFA, V.A.

AID P - 2620

Subject

: USSR/Meteorology

Card 1/1

Pub. 71-a - 23/26

Author

Krupa, V. A.

Title

CENTER MADE COMPANIES : On the exhibit of economic and cultural achievements

of the USSR in Peking

Periodical

: Met 1 gidr, 4, 60-61, J1/Ag 1955

Abstract

A detailed account of the 1954 exhibit which had an entire section devoted to hydrometeorology. Soviet specialists read reports on their latest technical achievements in order to acquaint Chinese visitors with the latest Soviet methods.

Institution: None

Submitted :

No date

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Digital integrators and their application. colley 10 no.8:

357-360 J1'64

KRUPACHEV, I. F.

20122 KRUPACHEV, I. F. Kombinirovanniye raneniya grudi i zhivota. V sb i Voprosy grudnoy khirurgii T.P.M., 1949, s. 159-64.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

KRUPACHEV, I. F. Fajor, Med. Corp

"Sub-Diaphragmal Absesses in Post-Traumata of the Thoracico-Abdominal Region," Khirurgiya, No.3, 1949

Evacuation Hospital

KAUPACHEV I E

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Bovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Heme

KRUPACHEV, I. F. OGNEV, B. V. METAL'NIKOV, H. N. KRUZHKOV, V. A.

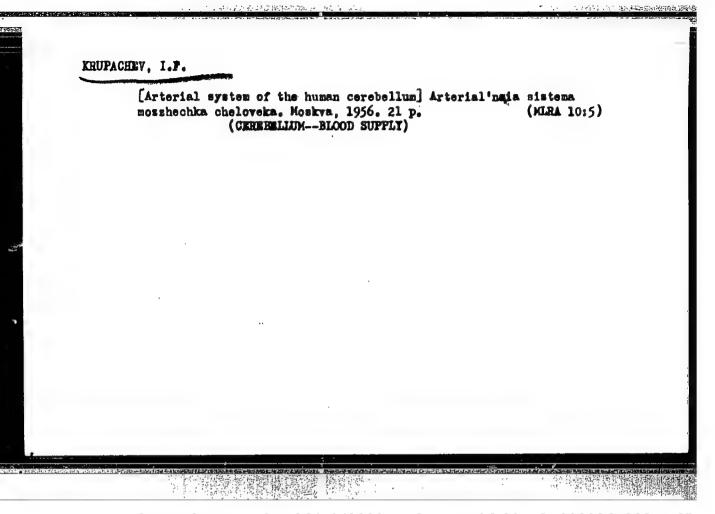
Title of Work

"Blood Supply to the Corebral Cortex Under Normal and Pathological Conditions"

Mominated by

Institute of Experimental Pathology and Cancer Therapy, Academy of Medical Sciences USSR

SO: W-30604, 7 July 1954



USSR / Human and Animal Morphology (Normal and Pathological).

Cardiovascular System.

Abs Jour

hef Zhur = Mol., To 21, 1958, No 97083

Author

: Krupechev, I.F.
: Not given

Inst

Title

: On Classification of the Arteries of the Human Cerebellum.

Orig Pub

: Vopr. neyrokhirurgii, 1957, No. 6, 14-16

Abstract

: A classification of cerebellar arteries and their branches, based on a topographo-anatomical principle, is cited. Their

division into parts and segments is given, and zones of

blood supply are pointed out.

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Cord 1/1

EXCERPTA MEDICA Sec 8 Vol 12/8 Neurology Aug 59

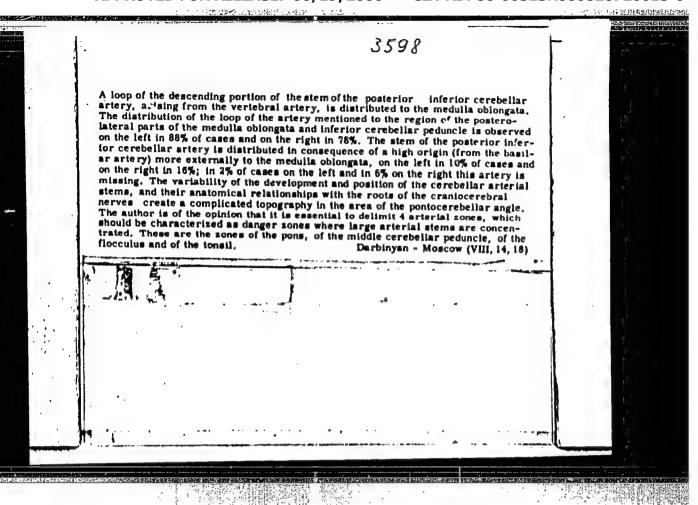
3508. THE TOMOGRAPHY OF ARTERIES OF THE PONTO-CEREBELLAR ANGLE (Russian text) - Krupachev I. F. - VOPR. NEIROKHIR. 1957, 6 (17-18)

The structure of the cerebellar arteries shows definite characteristics according to age, such that in adults, as distinct from children, there is observed a greater tortuosity of the vessels in the shape of arcs and loops formed by the stems of the cerebellar arteries in the various parts of the cerebellum. Where there is a strong development of the anterior inferior cerebellar artery and a high origin of the posterior inferior cerebellar artery, the stems of the two arteries form extens ive arcs lying within the limits of the ponto-cerebellar angle. The wide arc traversing the antero-inferior surface of the pons, the middle cerebellar peduncle, the flocculus, the biventral lobule and the tonsil, is very often formed by the anterior inferior artery and less frequently by the posterior inferior artery. Usually one arterial stem is distributed to the antero-inferior surface of the pons, but two may be found; in the latter case, the stems of the anterior inferior and posterior inferior arteries, or the stems of the anterior inferior and medial inferior cerebellar arteries, are most frequently distributed to the area mentioned. In the region of the middle cerebellar peduncle the atems of the cerebellar arteries are distributed in the same order as on the antero-inferior surface of the pons. In the region of the anterior quadrate lobule (on its anterior surface) a strongly developed external branch of the superior cerebellar artery can most frequently be observed, more rarely (in 20% of cases) the stem of the anterior inferior cerebellar artery, sometimes together with a strongly developed branch of the superior cerebellar artery. In the region of the flocculus one arterial stem is most commonly met with. Where two arierial stems are distributed within the boundaries of the flocculus, they most frequently belong to the anterior inferior and posterior inferior and less commonly to the anterior inferior and medial inferior cerebellar arteries. The topography of the arteries lying in the region of the flocculus is similar to that of the arteries disthe arteries lying in the region of the inoccutus is similar to that of the arteries distributed to the inferior surface of the pons and middle cerebellar peduncle. In either region, two arterial stems are seen more frequently on the right (in 24% of cases) than on the left (in 12%). This is explained by the fact that the posterior inferior cerebellar artery (where it has a high origin) and the middle inferior cerebellar artery arise from the bastlar artery more frequently on the right than on the left. In the pontocerebellar angle itself, the vascular formations are more marked on the right than on the left. In the region of the tonsil of either side, one arterial stem is most commonly distable, to a second of the side.

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ANGLE (Russian text) 3*598* 6 (17-18) The structure of the cerebellar arteries snows definite characteristics according to age, such that in adults, as distinct from children, there is observed a greater tortuosity of the vessels in the shape of arcs and loops formed by the stems of the cerebellar arteries in the various parts of the cerebellum. Where there is a strong development of the anterior inferior cerebellar artery and a high origin of the posterior inferior cerebellar artery, the stems of the two arteries form extensive arcs lying within the limits of the ponto-cerebellar angle. The wide arc tra-versing the antero-inferior surface of the pons, the middle cerebellar peduncle, the flocculus, the biventral lobule and the tonsil, is very often formed by the anterior inferior artery and less frequently by the posterior inferior artery. Usually one arterial stem is distributed to the antero-inferior surface of the pons, but two may be found; in the latter case, the stems of the anterior inferior and posterior inferior arteries, or the stems of the anterior inferior and medial inferior cerebellar arteries, are most frequently distributed to the area mentioned. In the region of the middle cerebellar peduncle the stems of the cerebellar arteries are distributed in the same order as on the antero-inferior surface of the pons. In the region of the anterior quadrate lobule (on its anterior surface) a strongly developed external branch of the superior cerebellar artery can most frequently be observed, more rarely (in 20% of cases) the stem of the anterior inferior cerebellar artery, sometimes together with a strongly developed branch of the superior cerebellar artery. In the region of the flocculus one arterial stem is most commonly met with. Where two arterial stems are distributed within the boundaries of the flocculus, they most frequently belong to the anterior inferior and posterior inferior and less commonly to the anterior inferior and medial inferior cerebellar arteries. The topography of the arteries lying in the region of the flocculus is similar to that of the arteries distributed to the inferior surface of the pons and middle cerebellar peduncie. In either region, two arterial stems are seen more frequently on the right (in 24% of cases) than on the left (in 12%). This is explained by the fact that the posterior inferior than on the left (in 12%). This is explained by the fact that the posterior interior cerebellar artery (where it has a high origin) and the middle inferior cerebellar artery arise from the basilar artery more frequently on the right than on the left. In the pontocerebellar angle itself, the vascular formations are more marked on the right than on the left. In the region of the tonsil of either side, one arterial stem is most commonly distributed, rarely two. Where there is one arterial stem, it usually belongs to the posterior inferior, and only rarely to the anterior inferior cerebellar artery. Where both arterial stems are present, they belong to the two arteries mentioned. The stem of the posterior inferior cerebellar artery quite often forms a very well developed are or scroll lying on the internal surface of the tonsil. forms a very well developed arc or scroll lying on the internal surface of the tonsil.



KRUPALA, J.

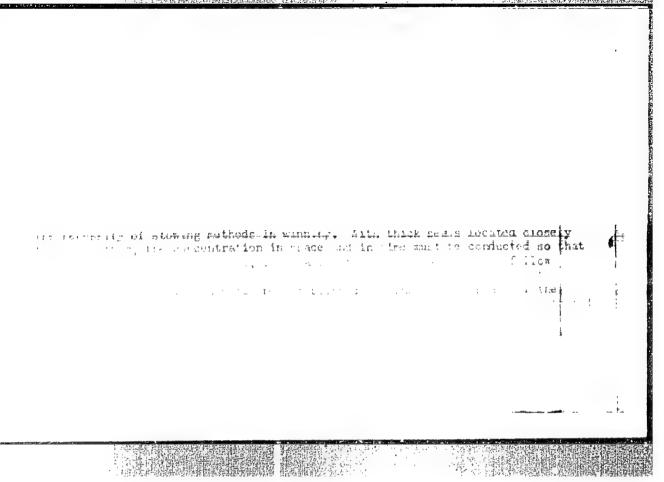
Scraping instead of grinding in cemented gear wheels. p. 16;. (Strojirenska Vyroba. Praha. Vol. 5, no. 6, Apr. 1957.)

SO: Monthly List of East European Accessions (REAL) IC., Vol 6, no. 7, July 1957. Uncl.

KHUPALA, Jurestay, matte have prace; Stilling, Vactay

Tyriff-ation of spor gears for gear boxes and built-in transmissions. Strop war 12 no.2098-201 464.

1. Vyzkumny ustav nafterych motoru, Fraba.



KEUPAR, SEE, G, JO

Laboratory tests with hard metal bits. p. 412 Vol. 11 No. 7 BANYASZATI LAPOK. Budapest, Hungary. July 1956.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1 January 1956.

KRUPAR, Z.

"Research institutes in the report on the Gottwald Five-Year Plan." (p. 110). STAVIVO (Ministerstvo stavebnich hmot) Praha, Vol 32, No 4, Mar. 1954.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

KRUPAR, Z.

"Our research organization in the Gettwald Pive-Year Plan." (p. 146). STAVIVO (Ministerstvo stavebnich hmot) Praha, Vol 32, No 4, Mar. 1954.

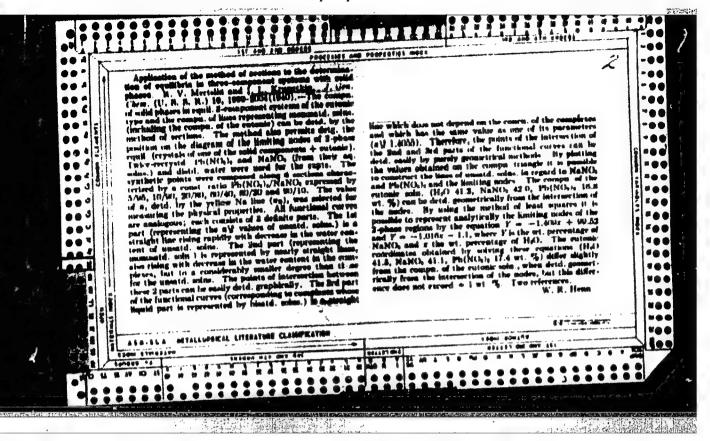
SO: East European Accessions List, Vol 4, No 8, Aug 1954

KRUPAROVA, M.

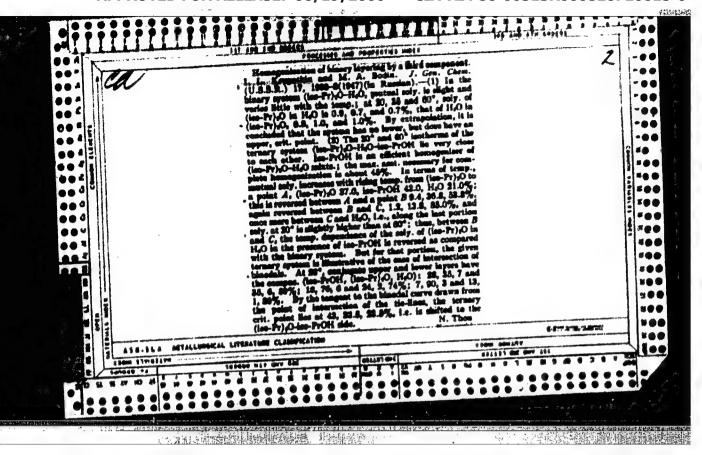
Changes in the biological value of sweetened condensed milk during heating. Cesk. hyg. 10 no.3:264-266 My '65.

1. Ustav hygieny, Praha.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0



KRUPATE CH. I. L.

"Application of the Section Method to Determining the Equilibria in Three-Member Systems in their Solid Phases". Zhur. obshch. Khim. 10, No. 22, 1940. Laboratory of Inorganic Chemistry, Molotov State University, Molotov. Received 13 June 1940.

·Report, U-1612, 3 Jan. 1952.

muamm, i. L.

Curves, Isothermic

Ternary systems with closed stratification isotherms. Zhur. ob. khim. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Uncl.

KRUPATKIH, I. L.

"Ternary Systems with Closed Layering Isotherms" (p. 184)

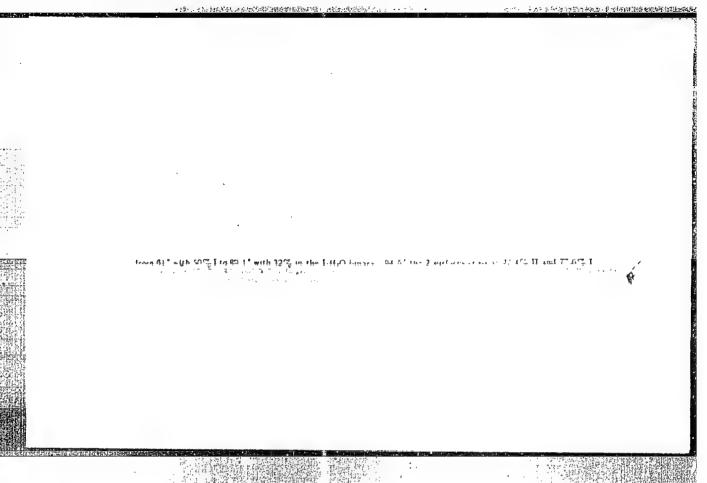
SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii) 1952, Vol. 22, No. 2

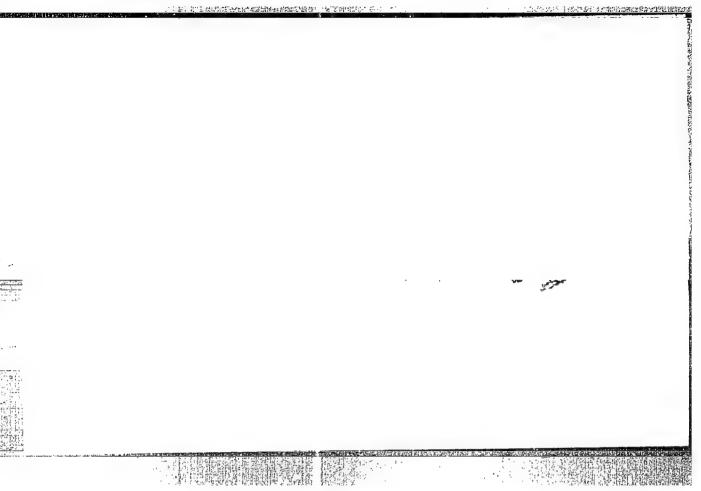
KRUPATKIN, I.L.

Ternary systems with closed layering isotherms. Zhur. Obshchey Khim. 22, 184-90; J.Gen.Com. U.S.S.R. 22, 229-35 '52 [angl.translation].(HLRA 5:5) (CA h7 no.19:97h3 '53)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0





KRUPATKIN, I. L.

Study of Metastable Equilibria of Liquid Phases I, Page 151, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

Chair of Chemistry, Cherkassk State Pedagogical Institute

KRUPATKIN, I. L. and LESHCHINSKIY, E. F.

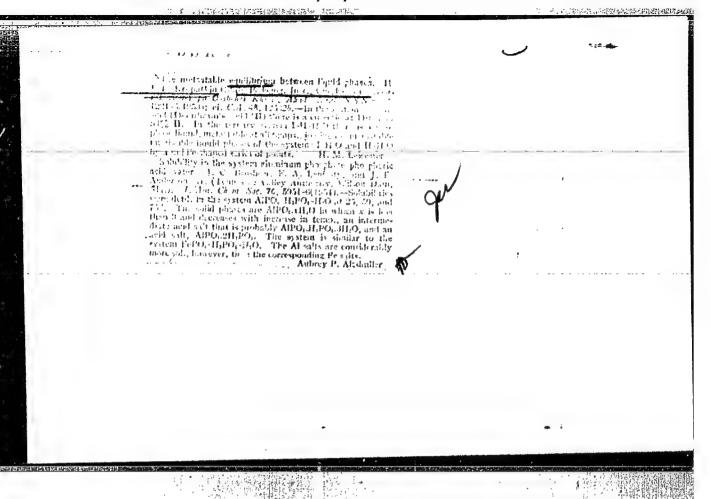
On Mutual Transitions of Stratification Zones, Page 144, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningred, 1953, pages 762-766

Chair of Chemistry, Cherkassk State Pedagogical Institute

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

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KRUFATKIH. 1. L.

Study of Metastable Equilibria between Liquid Phases. II, page 1221, Shornik Statey po chahchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Cherkassk State Pedagogical Inst

KRUPATKIN, I. L.

Relative Positions of Stratification Isotherms, page 771, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Cherkassk State Pedagogical Inst

phases. III. 1. L. Kuncikin. Zhur. Osikki Khim. 23, 1099-1103(1935); Cr. U.J. 43, 1253(2).—As an example of a ternary system in which only one component remains in of the solid phase the system S-diphenylamne (1)-2-naph-lithylamine (II) was invertigated. The 2 unknown binary systems of this ternary were detd. If II is a simple entected with 83% I at 42. In the binary systems of this ternary were detd. If II is a simple entected with 83% I at 42. In the binary systems of this ternary were detd. If II is a simple entected with 83% I at 42. In the binary system 5 II the crystn. curva consist of a entectic of 55% S at 100° not a practically horizontal section between 09 and 50% S at 103°. The latter is directly above the consolute point. In 100.5° with 75.05% 5, of the binard curve of conjugate solas. The ternary system was defineded by means of 0 planes passing through the Science of the prior and 100.5° in and covering the I-II binary at 10.20, 40, 60, 70, and 80% II. All polyderms consist of a continuous crystn. curve were a binard curve with a well-defined consolute point. A plane passing through the consolute point of the polytherms cutting the crystn. curves directly above courts of 2 almost parallel curve and a shallower dip, at 101°, in the crystn. curve. In the liquid plane of the prior at 85, 100, 95, 100, and 105° the max. New of liquid 5 is 60% in mined amines component with the soly, of solid 5 in the combined liquids of 45% 5; the solid 5 in the combined liquids of 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared with 30% in the liquid halpids is 45% as compared to this ternary system in a continuous crystn. surface over tire the same component crysta. Surface over tire the same component c

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	The metastable equil I. L. Krupatkin.). (ibriums between liquid phases. Sen. Chem. U.S.S.R. 25, 1509-16. n).—Sec C.A. 50, 6164. B. M. R.	2
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KRUPATKIN, I.L

USSR/Physical Chemistry - Thermodynamics. Thermodhemistry. Equilibrium. Physicochemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61041

Author: Krupatkin, I. L.

Institution: None

Title: Investigation of Unstable Equilibria Between Liquid Phases. IV.

Original

Periodical: Zh. obshch. khimii, 1955, 25, No 9, 1640-1645

Abstract: Studied were equilibria in the system picric acid (I)-salicylic acid (II)-water (III). Binary systems: (1) I-II. There was found a region of stable equilibrium between liquid phases with an upper critical point; (2) II-III. There was found a region of unstable equilibrium between liquid phases with an upper critical point over which is an almost horizontal portion of the crystallization curve; (3) I-II. The system is homogeneous in stable and unstable

state. In the system was found a picrate of molecular composition 1:6 (21.64% picric acid) stable in the liquid phase. The investigation was carried out by the polythermal method; on the basis of

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61041

Abstract: the obtained polytherms were plotted isotherms for 65, 68, 70, 80 and 90° the projections of which are reproduced on the composition triangle of the ternary system. At temperatures of 70°, 80° and 90° stratification isotherms are disposed in the form of 2 separate binodal curves. At 68.5° these curves are touching and at lower temperatures they merge to form a singular synclinal edge extending along the straight line joining the apex of water and the pole of composition of picrate (1:6). Communication III, see Referat Zhur - Khimiya, 1955, 11288.

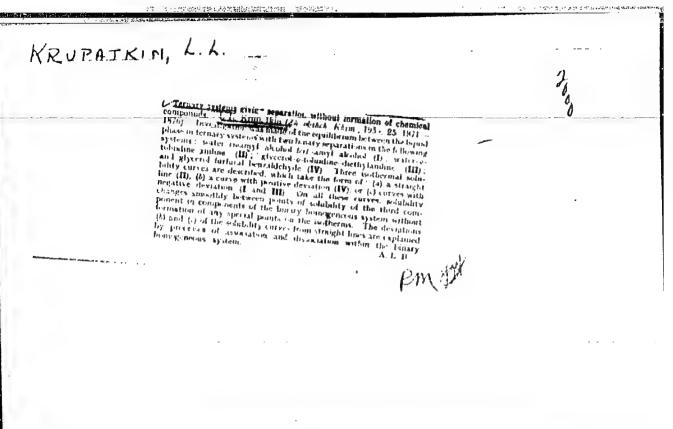
Card 2/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0

MRUP	Ternary systems with separation [of phases] without formation of chemical compounds. L. L. Krupatkin, J. Gen. Chem. U.S.S.R. 25, 1816-10(1956) English (1956) English (1956	<u>1</u>	
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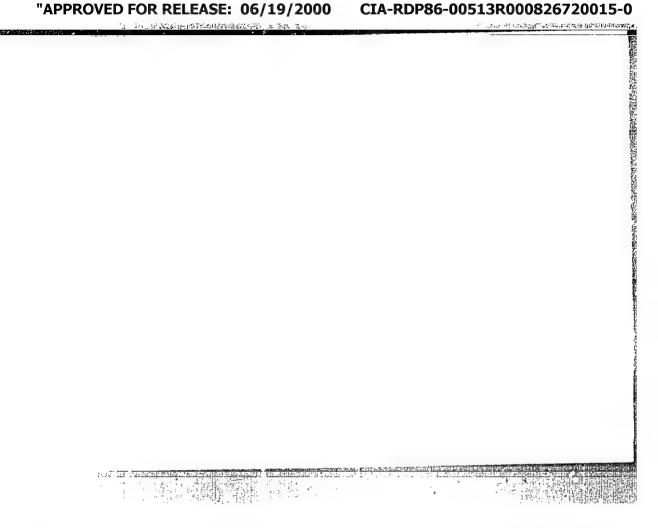
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CIA-RDP86-00513R000826720015-0



Application of V.F.Alekseev's rule to ternary systems. Zhur.
eb.khim. 25 no.11:2023-2028 0 '55. (MLRA 9:4)

1.Cherkasskiy gosudarstvennyy pedagogicheskiy institut.
(Phase rule and equilibrius)



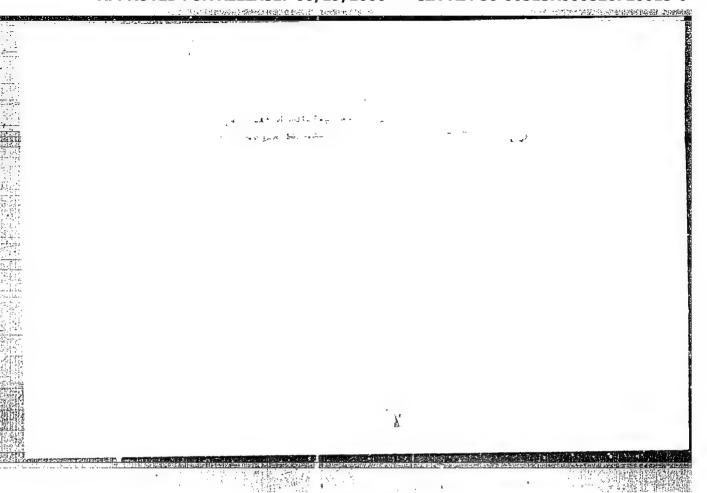
CIA-RDP86-00513R000826720015-0" APPROVED FOR RELEASE: 06/19/2000

KHUPATKIN, I.L.

property of the solvents. Zhur.eb.khim.25 no.12:2189-2198 N *55.

(MIRA 9:4)

1. Cherkasskiy gesudarstvennyy pedagogicheskiy institut. (Solvents) (Phase rule and equilibrium)



FKJPHTKIN, IL

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.

Physicochemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61019

Author: Krupatkin, I. L.

Institution: None

Title: On the Rule of Reverse Similarity

Original

Periodical: Zh. obshch. 20011, 1955, 25, No 13, 2420-2426

Abstract: For the equilibrium of 2 liquid phases the author proposes a rule

of "reverse similarity": Itain the concentration triangle of a ternary system with an equilibrium between 2 liquid phases we draw a straight line parallel to the side of the binary predominant system (this term is used to denote that binary system in which the interaction predominates over the interaction in the 2 other binary systems), approximately at the middle of the diagram, limited

by the solubility curves this reconcentration line will divide the isotherm of stratification into 2 branches which qualitatively will

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.
Physicochemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61019

Abstract: be similar to each other but will be reverse in their curvature and disposition of their geometrical elements. The regions of applicability of this rule are shown.

Card 2/2

J. T. WIX Wyber

USSR/Statistical Physics - Thermodynamics.

D-3

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11421

Author : Krupatkin, I.L.

Inst :

Title : Determination of Critical Points of Solubility.

Orig Pub : Nauk. zap. Cherkas'k. derzh. ped. in-t, 1956, 8, 65-68

Abstract : An analysis is given of the existing methods, and a new

method is proposed for exact determination of the coordinates of the critical point of solubility on the equi-

librium curve between the liquid phases.

Card 1/1

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0

11114, Ath & 6.6.

Category: USSR / Physical Chemistry

Thermodynamics. Thermoche sistry. Equilibrium. Physico-

chemical analysis. Phase :ransitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29923

Author : Krupatkin I. L.

Inst not given

Title : Theory of Stratification of Liquids

Orig Pub: Zh. neorgan. khimii, 1956, 1, No 6, 1210-1222

Abstract: Investigation of linear rate of stratification in binary systems phenol - water (I), sulfur - alpha-naphthylamine, sulfur - betanaphthylamine, sulfur - diphenylamine and sulfur - quinoline, depending on composition of the initial solution and the degree of supercooling. Linear rate of stratification and also the rate of. phase-layer separation are maximum in the case of compositions corresponding to the critical point, and are minimum in the case of compositions at the edges of the binodal curve. Kinetics of stratification of (I) has been studied by the microphotographic method. It was

Card : 1/2

-40-

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0

Category: USSR / Physical Chemistry

Thermodynamics. Thermochemistry. Equilibrium. Physico-

chemical analysis. Phase transitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29923

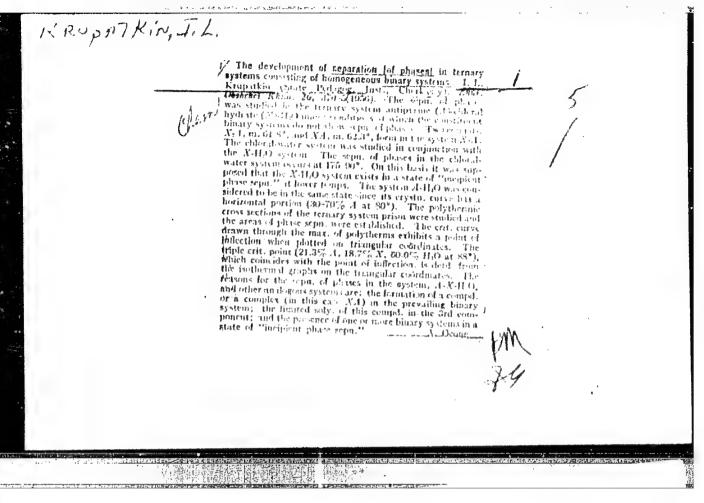
found possible to distinguish 3 stages of the process: a) formation of latent stratification state; b) formation of two liquid phases and propagation of the stratification front throughout the entire system; c) phase-layer separation. A qualitative picture is proposed of the stratification mechanism, which explains a number of specific features of this process.

Card : 2/2

-41-

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0



Krupatkin I.L.

B-8

USSR/Thermodynamics - Thermochemistry. Equilibria. Physical-Chemical Analysis. Phase Transitions.

: Referat Zhur - Khimiya, No 6, 1957, 18527

Abs Jour

: I.L. Kruratkin. Study of Phase Equilibrium in Pyramidon - Salicylic Author

Acid - Water System. Title

Zh. obshch. khimii, 1956, 26, No 4, 1050-1062 Orig Pub

: The equilibrium in the system pyramidon (I) - salicylic acid (II) - water (III) was studied. Two compounds of the composition 1:1 (melt. p. 970) and 1:3 with the melting point at 940 (decomp.) were found in the system Abstract I - II. One transition point (93.50, 63% of II) and two entactic points (870, 18% of II, and 820, 51.5% of II correspondingly) were found. In the system I - III, on the saparation curve, two critical points were discovered: a metastable lower point (680, 55% of III) and an upper one (1690, 60% of III). In the zone of the

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Card 1/2

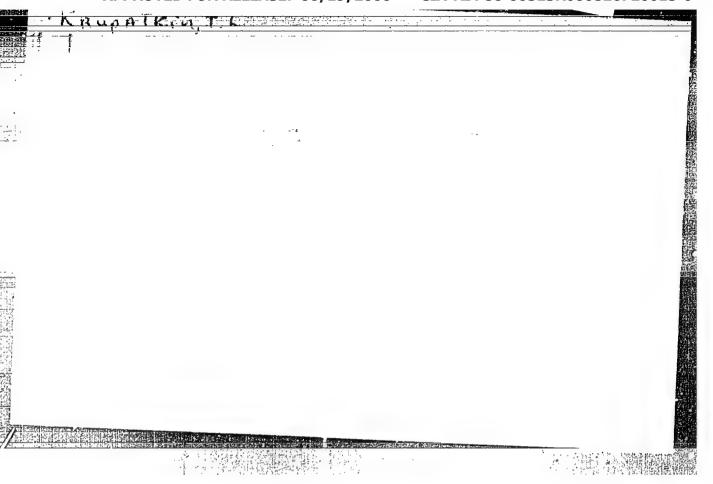
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Abs Jour

USSR/Thermoderes RELEASE: 06/19/2000 CI
APPROVED FOR RELEASE: 06/19/2000 CI
Physical-Chemical Analysis. Equilibria. Physical-Chemical Analysis, Phase Transitions. : Referat Zhur ~ Khimiya, No 6, 1957, 18527

B-8

crystallization curve at 70.50 the monotectic equilibrium is accomplished. Two separation surfaces (SS) are fixed in the system I - II - III, there is between them an homologous zone, through which the section of the prism of the compound of the composition 1: 1 passes. pound is detected in the liquid phase and is of a hydro-Philic nature. On the SS butting against the face of the binary cystem II - III, an upper ternary critical point (138.50, 16% of I, 29% of II) was discovered; it is situated in the section of the prism of the compound of the composition 1: 3, which is of hydrophobic nature. The author emphasizes that the separation studies permit in many cases to judge about the structure of compounds forming in systems.



KRUPATKIN, I.L.

Study of metastable equilibriums among liquid phases. Part 5. Zhur.ob.khim. 26 no.7:1831-1837 Jl *56. (MLRA 9:10)

1. Cherkasskiy gosudarstvennyy pedagogicheskiy institut.
(Phase rule and equilibrium) (Diphenylamine) (Quinoline)

ERUPATKIN, I.I.

Investigation of unstable equilibria between liquid phases.

Zhur.ob.khim. 26 no.12:3240-3246 D '56. (MIRA 10:7)

1. Cherkasskiy gosudarstvennyy pedagogicheskiy institut.
(Phase rule and equilibrium)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

"APPROVED FOR RELEASE: 06/19/2000

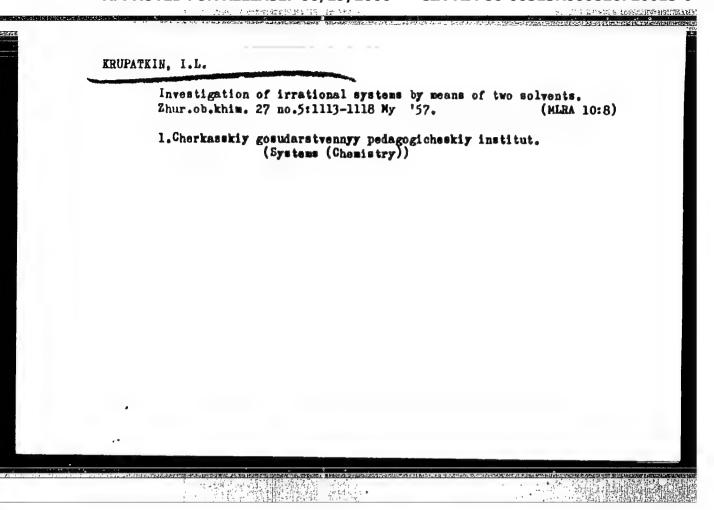
CIA-RDP86-00513R000826720015-0

Lamination in two-component chemical systems, Zhur, ob, khim, 27 no.3; 561-566 Mg '57. (MIRA 10:6) 1. Cherkasskiy gosudaretvennyy pedagogicheskiy institut, (Systems (Chemistry))

KRUPATKIN, I.L.

Using the method of two solvents for studying interactions in liquid systems. Zhur. ob. khim. 27 no.3:567-573 Mr 157. (MIRA 10:6)

1. Cherkasskiy gosudarstvennyy pedagogicheskiy institut. (Systems (Chemistry)) (Antipyrine) (Benzoic acid)



· 个工艺生工学和大学的工作。由于中国中国的特殊的基础的特殊

AUTHORS:

Krupatkin, I. L., and Todorov, I. A.

77-11-2/56

TITLE:

An Investigation of the States of Equilibrium Between Phases in the System Pyramidon-Diethylamine-Water (Issledovaniye fazovykh ravnovesiy v sisteme piramidon-dietilamin-voda).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, Kr 11, pp. 2916-2921 (USSR).

ABSTRACT:

The properties of homogenization of the compounds forming in systems are hardly investigated, although they may be of practical importance in the selection of mixed solvents. It was not the system pyramidon—salicylic acid—water as in the preceding investigation which was tamken here, but the new system pyramidon—diethylamine—water, where the presence of the dissociated compound could be determined in the prevailing system pyramidon—diethylamine, This compound and the two double systems separating in layers permit the assumption that two individual domains of the separation of layers exist in the triple system selected. The double system pyramidon—diethylamine was investigated with regard to fusibility. An incongruently melting compound was determined in this system. The system pyramidon—diethylamine—water was investigated regarding the separation of layers and the fusibility. The diagram of the state of the triple system indicates two individual surfaces of the separation of layers, with lower critical points.

Card 1/2

An Investigation of the States of Equilibrium Setween Phases in the 79-11-2/56 System Pyramidon-Diethylamine-Water.

This kind of equilibrium between the liquid phases depends on the strongly homogenized qualities of the compound of the prevailing double system which are connected with the dissociation in the third component, water. The contact section (kasaniye) and the point of centact for low critical temperatures were found at the surface of the separation of layers on the double system.

There are h figures, 1 table, and 6 Slavic references.

ASSOCIATION: Cherkassy State Pedagogical Institute (Cherkasskiy gosudarstvennyy

renagogicimskiy imbibubly

SUBMITTED: November 17, 1956.

AVAILABLE: Library of Congress.

1. Pyramidon-Diethylamine-Water system-Phase studies

2. Chemical equilibrium-Analysis

Card 2/2

AUTHORS: Krupatkin, I.L., Todorov, I.A. 153 58-1-4/29

TITLE:

The Kinetics of the Separation Into Layers of Liquids in Systems With Maximum Oritical Points (Kinetika rasslaivaniya zhidkostey

v sistemskh s verkhnimi kriticheskimi tochkami)

PERIODICAL:

Isvestiya vysshikh uchebnykh savedeniy, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 20-27 (USSR)

ABSTRACT:

On the strength of kinetic and microphotographical investigations of the decay of liquid solutions and of the study of the equilibrium of liquid phases one of the authors (Ref 1,2) already at an earlier date worked out a theory of the mechanism of the separation into layers of liquids. This theory provides for three stages of separation. In order to extend the applicability of this theory the authors investigated the kinetics of the separation into layers of liquids in the system n-nitrophenol - water with stable separation into layers. It was shown that the laws and rules governing kinetics confirm the correctness of the suggested theory of the mechanism of the separation of liquids into

Card 1/2

layers. Furthermore, the kinetics of the separation of liquids

The Kinetics of the Separation Into Layers of Liquids in Systems With Maximum Critical Points

153-58-1-4/29

into layers was investigated in the system salicylic acid water with a metastable separation of liquids into layers. It was possible to prove that the kinetics of metastable separation into layers is governed by the same laws as stable separation. There are 4 figures, 4 tables, and 6 references, 4 of which are Soviet.

ASSOCIATION:

Ivanovskiy khimiko-tekhnologicheskiy institut. Kafedra neorganicheskoy khimii (Ivanovo Chemical-Technological Institute.

Chair of Inorganic Chemistry)

SUBMITTED:

September 7, 1957

Card 2/2

5(2) SOV/153-58-3-3/30 AUTHORS: Krupatkin, I. L., Todorov, I. A. The Kinetics of Separation Into Layers in Systems With Lower TITLE: Critical Points (Kinetika rasslaivaniya zhidkostey v sistemakh s nizhnimi kriticheskimi tochkami) Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i PERIODICAL: khimicheskaya tekhnologiya, 1958, Nr 3, pp 15 - 20 (USSR) ABSTRACT: The theory of the mechanism of the process under review was elaborated in systems with upper critical points (Refs 1, 2). It may be assumed that it is applicable also to systems with lower critical points (Ref 3). An experimental proof, however, is required by the assumption that the latter systems do not differ in principle from the first ones in a particular phase equilibrium. That proof was the objective of this paper. Therefore the kinetics mentioned in the title was studied at lower stable and lower metastable critical points, i.e. in 2 kinds of systems of this type. The system of phenol-o-phosphoric acid was chosen because it is a double system with a stable lower critical point, and has already been investigated as Card 1/4 to the separation into layers (Ref 4). Pyramidon and water

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

The Kinetics of Separation Into Layers in Systems SOV/153-58-3-3/30 With Lower Critical Points

served as a double system with a metastable lower critical point (Ref 5). The results obtained for phenol-o-phosphoric acid are given in table 1, figure 1 and curve 1. The kinetics mentioned in the title for the system pyramidon and water is presented in table 3 and figure 3. For comparison, figure 1 gives the curve of the separation into layers $(P_{\underline{a}})$ of the

systems investigated with a lower critical point K. The dependence of the linear rate of extension of the separation into layers on the superheating was studied in the same mixtures (80.58% and 49.96% o-phosphoric acid) (Table 1, Fig 1, Curve 2). The latter curve is qualitatively very similar to curve 1 and has a distinctly marked maximum. The velocity mentioned increases by about the tenfold in the transition from 80.58 to 49.96% o-phosphoric acid. On superheating in a mixture that nearly corresponds to the critical point, the velocity mentioned is 3.5 times higher than that to be found in mixtures which are near the edges of the binodal surfaces. Figure 1 shows that superheating rapidly increases the linear rate of extension (up to the 14-fold).

Card 2/4

The Kinetics of Separation Into Layers in Systems S0V/153-58-3-3/30 With Lower Critical Points

Table 2 and figure 2 give the duration of the stratification of the phases in dependence on the concentration of the components in the whole concentration range below the stratification curve.

C on c 1 u s i on s: In the systems mentioned: a) with a stable stratification into layers and a lower critical dissolution temperature, and b) with a metastable equilibrium between the liquid phases and a lower critical point it was proved that the kinetics of the stratification into layers in systems with lower critical points obey the same laws as in systems with upper critical points. Thus it is confirmed that in both systems the phenomenon of the separation into layers takes place according to the same mechanism. Thus the theory of the mechanism of the separation into layers is fully applicable to systems with lower critical points both in stable and metastable state. There are 4 figures, 4 tables, and 5 Soviet references.

Card 3/4

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

The Kinetics of Separation Into Layers in Systems

SOV/153-58-3-3/30

With Lower Critical Points

ASSOCIATION:

Ivanovskiy khimiko-tekhnologicheskiy institut (vanovo Institute of

Chemical Technology) Kafedra neorganicheskoy khimii (Chair

of Inorganic Chemistry)

SUBMITTED:

September 3, 1957

Card 4/4

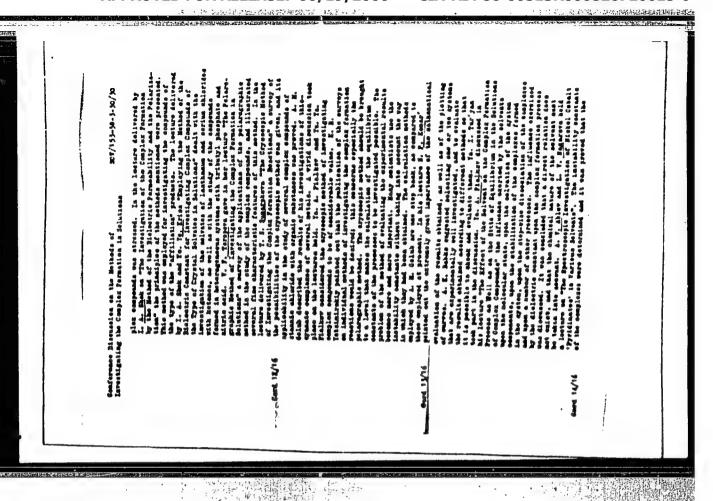
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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720015-0

AUTHOR: Krupatkin, I. L. 79-28-3-56/61 TITLE: Investigation of the Continuous Transitions From Stable to Metastable Separation of Layers (Issledovnniye nepreryvnykh perekhodov stabil'nogo rasslaivaniya v metastabil'noye) PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr. 3, pp. 823-829 (USSR) ABSTRACT: The transformation of stable separation of layers to the metastable state can be of practical interest as a process which makes it possible to obtain the fusion of two and three bodies within the whole concentration interval of the binaryand tertiary system formed by them. It is shown that this transition in the ternary system takes place above the intersection and above the point of contact of the fusibilityand separation- of-layer curves. As a whole, different types of continuous mutual transitions of metastable and stable separation of layers of binary and tertiary systems are investigated. They consist of four basic types represented in the figures. The fourth type represented in figure d () has Card 1/2 not been found until now. This to find is the aim of the

Investigation of the Continuous Transitions From Stable to 79-28-3-55/61 Metastable Separation of Layers

> present work. In the binary system salicylic acid-phenol investigated with a view to its fusibility, a chemical reaction of the components was not found. The separation of layers of the two tertiary systems salicylic acid-phenol-water and anthranilic acid-phenol-water was investigated. It was found that in both cases the volume of the separation of layers of the ternary system binds the surfaces of the separation of layers of the two binary systems formed by water, and that it has a point of inflection. The cause of the formation of such types of diagrams of ternary systems was explained. It is shown that in both investigated ternary systems one of the types of continuous mutual transitions of metastable and stable separation of layers of binary systems is realized in which the mentioned transition through the point of inflection takes place. There are 6 figures, 3 tables, and 10 references, 8 of which are Soviet.

ASSOCIATION:

Yaroslavskiy tekhnologicheskiy institut (Yaroslavl' Technological Institute)

SUBMITTED:

January 12, 1957

Card 2/2

AVAILABLE: Library of Congress

AUTHOR: Krupatkin, I. L.

79-28-4-57/60

TITLE:

On the Establishment of Equilibrium Between 3 Liquid Phases in Termary Systems (O vozniknovenii ravnovesiya trekh

zhidkikh faz v troynykh sistemakh)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4,

pp. 1108-1112 (USSR)

ABSTRACT:

In recent time stable equilibrium was found between 3 liquid phases in ternary systems which are formed of binary systems with stable phase separation. It was also shown that also in ternary system which contains binary systems with metastable phase separation equilibrium can be established between 3 liquid phases (Ref. 1). Here also the equilibrium was metastable and was established according to the same scheme as the stable phase separation. Stable equilibrium between 3 liquid phases in a ernary system which contains one or more binary systems with metastable phase separation were not yet investigated. The research of this type of equilibrium and of the scheme of its formation was the object

Card 1/3

of the present paper. The binary system anthranilic acid -

On the Establishment of Equilibrium Between 3 Liquid Phases in Termany Systems 79-28-4-57/60

benzine was investigated as well; it pertains to the systems with metastable phase reparation. The system water - benzine belongs to the systems with stable phase separation with an upper critical point which is to a great extent positive (Ref.1). The system water - anthranilic acid was investigated with respect to the phase separation. The curve of the motastable phase separation has a lower critical point at 78°C which corresponds to 38% of anthranilic acid. Thus the ternary system used contains 2 binary systems with metastable and one system with stable phase separation. The system anthranilic acid - benzine was investigated by means of the melting point curve. The crystallization curve is s-shaped and very steep; the form of the curve is due to the existence of a curve for metastable phase separation. This curve lies, however, at such low temperature that they cannot be found experimentally. Their existence can, however, be detected indirectly. It is shown that this system belongs to the systems with metastable phase separation and a very low critical point. The ernary system anthranilic acid - water - benzine was investigated by means of the phase separation. It was found that the reciprocal solubility of two liquid phases of this system depends only to a little ex-

Card 2/3

On the Establishment of Equilibrium Between 3 Liquid Phases in Ternary Systems

79-28-4-57/60

tent on temperature. On the strength of these investigations it was found that this system has a domain of stable equilibrium between 3 liquid phases which lies at temperatures below 124°C (temperature of the critical conode). Temperature-concentration limits of the region of the three-phase liquid equilibrium and the compositions of the coexisting solutions of the critical conode were found. Furthermore it was shown that the scheme of the polythermal line of the occurrence and the development of a stable equilibrium between the three liquid phases in ternary systems which contain binary systems with stable and metastable phase separation is one and the same.

There are 3 figures, 2 tables and 4 references, 3 of which are Soviet.

ASSOCIATION: Yaroslavskiy tekhnologicheskiy institut (YaroslavF Technological Institute)

SUBMITTED: March 18, 1957

Card 3/3

5 (4) 807/79-29-8-7/81 Krupatkin, I. L. AUTHOR: Employment of the Method of Two Solvents for an Investigation TITLE: of the Formation and Properties of Organic Complexes Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2490 - 2495 PERIODICAL: (USSR) This theoretically founded method (Refs 1-4) is st present ABSTRACT: being used - among other applications - for the investigation of the chemical reaction in liquid systems; in addition, it takes the effect of the medium into account. The above method has hitherto been used but rarely for the investigation of systems in which two complexes occur. To close this gap, the two binary systems "chloral hydrate - antipyrine" and "pyramidon - salicylic acid", previously investigated only in the polar solvent water (Refs 5,6), are investigated here in the homopolar solvent benzine. By V. P. Alekseyev's method (Ref 7)

it was investigated how far the system "chloral hydrate - benzine" can be separated into layers; it belongs to the systems with an upper critical point (Fig 1). The system pyramidon benzine was investigated with respect to fusibility; it is one of the systems with latent separation into layers (Fig 2). In

Card 1/3

Employment of the Method of Two Solvents for an Investigation of the Formation and Properties of Organic Complexes

SOV/79-29-8-7/81

this connection two complexes of the predominant system appear in the isothermal lines of the ternary system "chloral hydrate antipyrine - benzine" (Fig 3). A complex of the predominant system with the solubility minima, the upper ternary critical point, and a break in the critical line appears in the isothermal lines of the ternary system "pyramidon - salicylic acid - benzine" (Fig 9). A region of separation into layers is visible in all three homogeneous binary systems whithin this ternary system, a phenomenon which is illustrated in more detail in the report. It was shown that in the investigation of the complex formation in organic compounds with two complexes the above method is reliable. It permits detection of all complexes of the system, and determination of their composition and a series of properties. It was further shown that of two complexes that complex is most stable which contains a larger quantity of the component of the reacting system which reacts more weakly with the third component - the solvent. There are

Card 2/3

Employment of the Method of Two Solvents for an SOV/79-29-8-7/81 Investigation of the Formation and Properties of Organic Complexes

4 figures, 2 tables, and 11 references, 10 of which are Soviet.

ASSOCIATION: Ivanovskiy khimiko-tekhnologicheskiy institut (Ivanovo Insti-

tute of Chemical Technology)

SUBMITTED: June 5, 1958

Card 3/3

KRUPATKIN, I.L.

Reply to E.F. Zhuravlev. Zhur.ob.khim. 31 no.10:3485-3486 0 161. (MIRA 14:10)

1. Ivanovskiy khimiko-tekhnologicheskiy institut. (Phase rule and equilibrium)

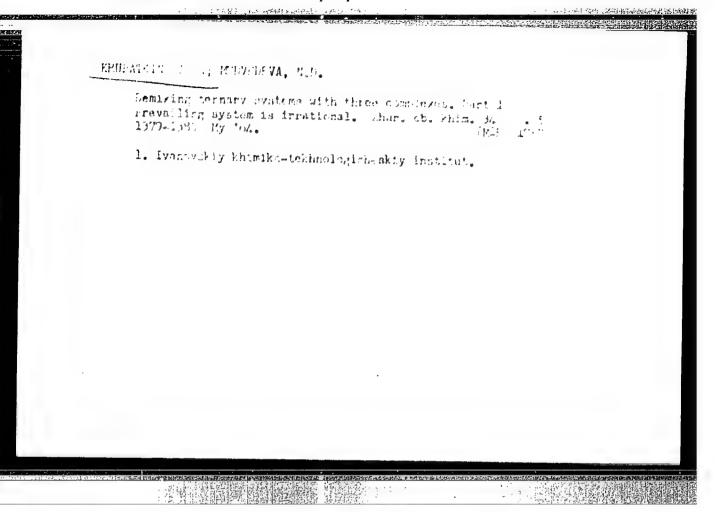
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

KRUPATKIN, I.L. Priority of D.N. Abashev in the discovery of the isothermal method for studying the mutual solubility of liquids. Trudy method for studying the matter.

Inst.ist.est.i tekh. 35:376-379 '61.

(Solutility) (MIEA 14:9)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"



ZHUKOV, P.A.; GANSHTAK, V.I.; KRUPATKINA, B., redaktor; UL'YANOVA, M., tekhnicheskiy redaktor

[The leading role of socialist industry in the development of Soviet agriculture] Vedushchaia rol' sotsialisticheskoi promyshlennosti v vazvitii sel'akogo khoziaistva, 1954. 62 p. (MLRA 9:12) (Agriculture) (Industrialisation)

KRUPATKINA, D. L. Cand Med Sci -- (diss) "Clinic and diagnosis of tumors of the cerebellopontile angle." Swerdlowsk, 1957. 13 pp 22 cm. (Swerdlowsk State Med Inst) 100 copies (KL, 8-57, 109)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720015-0"

VOL'FOVSKIY, G. M.; KRUPATKINA, H.K.; IVANOV, A. I.

Regulation of PVR ovens equipped with separate regenerators in the course of heating with coke gas. Koks i khim. no.11:25-29 '60. (MIRA 13:11)

1. Koksokhimstantsiya.

(Coke ovens)

KRUPAVER, KAMIL

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and

H-13

Their Application - Ceramics, Glass, Binders,

Concrete.

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8752

Author

: Krupauer Kamil

Inst Title

Compression Strength and Thermal Stability of Sight

Glasses.

Orig Pub

: Sklar a keramik, 1957, 7, No 4, 112-113

Abstract

: A study was made of the compression strength depending upon the ratio of thickness of the glass to its diameter. For this purpose use was made of round sight glasses ground on both sides and made from cast glass having the following composition (in % by weight): SiO₂ 73.72, Al₂O₃ 0.83, Fe₂O₃ 0.035, CaO 6.4, MgO 0.04, Na₂O + K₂O

18.02, SO3 0.22, CI 0.1, As2O3 0.6. Thickness of the

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glasses was 8-20 mm. Only those glasses were selected for testing which were free from waviness and showed a uniform distribution of stresses up to a value of about 90 m/cm. For determination of thermal stability 10 glasses were used having a thickness of 12-14 mm. All the glasses without exception failed to withstand temperature differences in excess of 45 + 5°. Sight glasses can successfully perform their functions at temperature differences not over 30-35°, internal stresses up to 90 m/cm and thickness of 10-15 mm. At the same time one must take into account the necessity of a two- to three-fold strength safety factor, including such elements as, for example, uneven fastening, material fatigue following prolonged strain, etc. Sight glasses must be made from glass material which ensures